

Botany Evolution LLC

2510 Kirby Circle NE

Palm Bay, FL 32945

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Certificate Of Analysis**Sample Identification Information**Date of Analysis 6/24/2019Sample: S0685Product Name INSTANT CEREMONIALLot# VBE190617CICountry of Origin VANUATUCountry of Processing USAManufacture Date 06/17/19Best By Date 06/17/22**General Product Specifications**Product Species Piper MethysticumPart Used RootCommon Names Kava kava, Awa, YagonaAppearance Yellow powder**Analyzed Characteristics****Specification****Result****Test Method**Standardization

2-17% Kavalactones

6.40%

HPLC

Identification

Complies by HPLC

Conform

HPLC

Kavalactone Profile

Noble

PASS

HPLC

Mesh Size

60-30

60

Sieve

Color

Beige to Yellow

Pass

Visual

Odor

Pass

Organoleptic

Taste

Pass

Organoleptic

Chemotype

243516

HPLC

K/DHM

2.44

Calculation

Kavalactones	Code	Peaks Ref. (elution order)	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	K			2349.48			
Methysticin	M	1	2.21	459.263	8.33%	0.57%	6
Dihydromethysticin	DHM	2	3.38	371.581	6.74%	0.68%	5
Kavain	K	3	1	2932.257	53.20%	1.65%	4
Dihydrokavain	DHK	4	3.08	819.23	14.86%	1.94%	2
Desmethoxyyangonin	DMY	5	2.52	378.403	6.87%	0.58%	1
Yangonin	Y	6	3.12	550.967	10.00%	0.98%	3
Kavalactones			Total:	5511.701	100.00%	6.40%	243516

*See data in attachment HPLC1100 Agilent Certificate with Chromatogram graph.

This result are in house tested and the best of our knowledge and experience. Using calibrated equipment.

We are dedicated to offer the best Quality of Botanical products on the market. We test and stand behind our products.

Disclaimer* the test results are accurate to the best of our knowledge and are based upon reputable laboratory and industry standard testing methods.

These results should not be used as a final determination for use in a finished product. It is recommended that you verify these test results with an

in house quality control department or obtain an additional independent third party lab to verify that this material meets specifications

Botany Evolution, its board of directors, contract laboratories, employees, and affiliates are held harmless from any loss or damages resulting from the

use or misuse of this document. The appropriate use of this product is the sole responsibility of the user of the purchasing party.

Chemist

Misti Youngs

Date

6/27/19

SAMPLE S0685
 Vial 15

0.75241g/50ml

wavelength 246 nm

C:\CHEM32\1\DATA\KAVA_6_24_2019_15MINSTDTESTMETHOD 2019-06-24 16-31-18\015->

SEQUENCE C:\CHEM32\1\DATA\KAVA_6_24_2019_ ->

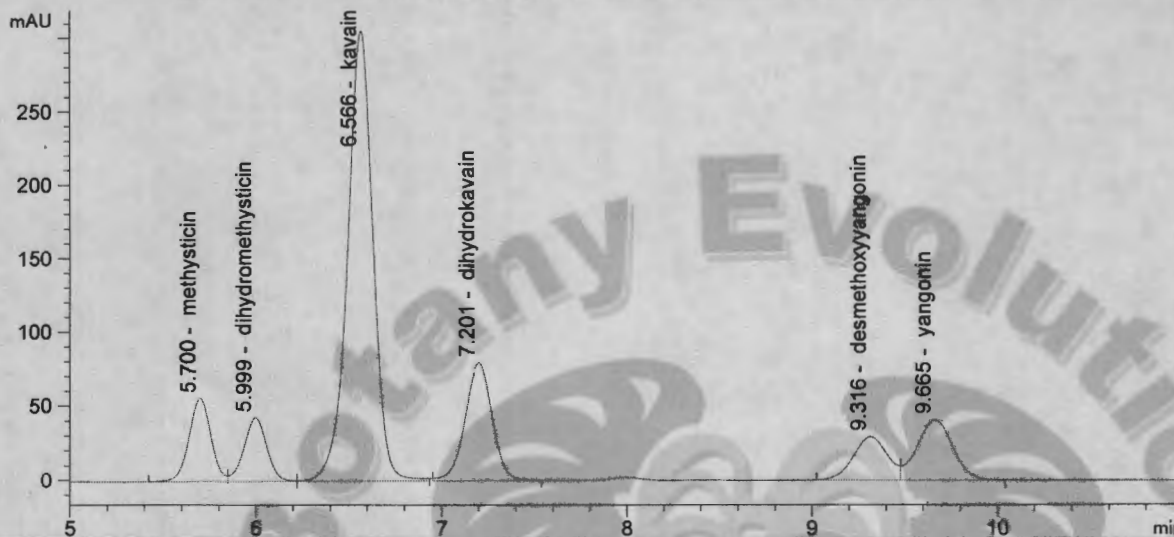
Injection date 6/24/2019

Injection time 9:22:48 PM

Acq. operator KRISTL

Method C:\CHEM32\1\DATA\KAVA_6_24_201->

DAD1 C, Sig=246,10 Ref=500,60 (KAVA_6_24_2019_15MINSTDTESTMETHOD 2019-06-24 16-31-18\015-1501.D)



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1	methysticin	5.700	459.263	8.33	0.000
2	dihydromethysticin	5.999	371.581	6.74	0.000
3	kavain	6.566	2932.257	53.20	0.000
4	dihydrokavain	7.201	819.230	14.86	0.000
5	desmethoxyyangonin	9.316	378.403	6.87	0.000
6	yangonin	9.665	550.967	10.00	0.000

6/27/19
 YJ